AMENDMENTS TO THE CLAIMS

- (Currently Amended) An apparatus for forming at least a portion of a semiconductor device, said apparatus comprising:
 - a reaction chamber for heating a substrate on which the semiconductor device is to be formed:
 - a load lock chamber for transferring said substrate between said reaction chamber and an external ambient:
 - a flange having a first end connected to said reaction chamber and a second end connected to said load lock chamber;
 - a first source for supplying a first treating gas to said reaction chamber;
 - a first pumping system coupled to said reaction chamber connected to said flange for maintaining said reaction chamber at a first vacuum pressure during the supplying of said first treating gas;
 - a second source for supplying a second treating gas to said reaction chamber;
 - a second pumping system coupled to said reaction chamber connected to said first flange for maintaining said reaction chamber at a second vacuum pressure during the supplying of said second treating gas, said second vacuum pressure being lower than said first vacuum pressure; and;
 - a third pumping system coupled to said reaction chamber for transitioning said reaction chamber between said first vacuum pressure and said second vacuum pressure; and
 - a valve connected to said second end of said flange for isolating said lock chamber from said first, second and third pumping systems.
- 2. (Original) An apparatus according to claim 1, wherein said reaction chamber, said first source and said first pumping system form at least part of a Low Pressure Chemical

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Vapor Deposition (LPCVD) system.

- (Original) An apparatus according to claim 2, wherein said reaction chamber, said second source and said second pumping system form at least part of an Ultra High Vacuum-Chemical Vapor Deposition (UHV-CVD) system.
- (Currently Amended) An apparatus according to claim 1. further comprising a load-lock chamber coupled to said reaction chamber for transferring said substrate between said reaction chamber and an external ambient, wherein said load-lock chamber also being coupled to a turbomolecular pump and a mechanical pump in series.
- (Previously Presented) An apparatus according to claim 1, wherein said third pumping system comprises a cryopump and a scroll pump arranged in series to remove contaminates from said reaction chamber after the supplying of said first treating gas.
- 6. (Original) An apparatus according to claim 3, further comprising a first pumping system coupled to one end of said reaction chamber and forming therewith a portion of said LPCVD system, and a second pumping system coupled to another end of said reaction chamber and forming therewith a portion of said UHV-CVD system; wherein said first pumping system is also coupled to a roots blower and a mechanical pump in series; and wherein said second pumping system is also coupled to a turbomolecular pump, a roots blower and a mechanical pump in series.
- (Original) An apparatus according to claim 6, wherein said third pumping system is coupled to said reaction chamber and comprises a cryopump in series with a scroll pump for removing contaminants from said reaction chamber.

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- 8. (Original) An apparatus according to claim 1, wherein said reaction chamber, said first source and said first pumping system form at least a part of a Low Pressure Chemical Vapor Deposition (LPCVD) system for prebaking said substrate in a hydrogen containing gas and for forming silicon containing layers on said substrate; and wherein said reaction chamber, said second source and said second pumping system form at least part of an Ultra High Vacuum-Chemical Vapor Deposition (UHV-CVD) system for forming germanium (Ge), silicon (Si) or SiGe containing layers on said substrate.
- (Original) An apparatus according to claim 1, wherein said first pumping system comprises a roots blower and a mechanical pump in series.
- (Original) An apparatus according to claim 1, wherein said second pumping system comprises a turbomolecular pump, a roots blower and a mechanical pump in series.
- (Original) An apparatus according to claim 1, wherein said third pumping system comprises a cryopump and a scroll pump in series.
- 12. (Original) An apparatus according to claim 1, wherein said first pumping system comprises a roots blower and a mechanical pump in series; wherein said second pumping system comprises a turbomolecular pump, a roots blower and a mechanical pump in series; and wherein said first pumping system and said second pumping system share the same roots blower and mechanical pump.

Claims 13-20. (Canceled)

(New) An apparatus according to claim 1, wherein said third pumping system is connected to said flange.

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